

TITLE

METHOD OF COMMAND ENTRY FOR AN ELECTRONIC DEVICE

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a method of command entry for an electronic device, and in particular to a method utilizing a single button and a light indicator to expand functionality.

Description of the Related Art

10 Control buttons on CD-ROM drives have limited functionality, since there is limited space on the external surfaces thereof.

15 In order to enhance usability, additional function buttons can provide multiple functions according to the length of time pressed. For example, a CD-ROM drive can execute a first function when a function button is pressed for one second, and a second function when pressed longer.

20 However, even with varying lengths of pressing time providing multiple functions, limitations are still presented by the existence of a single button. Manufacturers can add more buttons to increase functions, but this raises costs.

 In view of the foregoing, there is a need for a method for providing increased CD-ROM functionality with a single button.

SUMMARY OF THE INVENTION

25 Accordingly, the invention utilizes a single button to provide multiple functions for an electronic device according to update firmware.

The invention provides a method of command entry for an electronic device. First, a single button enters the electronic device into a multi-function entry state, indicated by a first light status. The button is pressed within a first predetermined period to input a corresponding command.

The present invention also provides another method of command entry for an electronic device. First, a single button enters the electronic device into a multi-function entry state, indicated by a first light status. The button is pressed again within a first predetermined period after entering the multi-function entry state to input a corresponding command. A light indicator displays a second light status corresponding to the command. Finally, the button is pressed again within a second predetermined period to confirm the command.

15 **BRIEF DESCRIPTION OF THE DRAWINGS**

The present invention can be more fully understood by reading the subsequent detailed description and examples with references made to the accompanying drawings, wherein:

Fig. 1 is a schematic view of a CD-ROM drive according to
20 the present invention;

Fig. 2 is a flowchart illustrating the method of command entry for an electric device according to the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Fig. 1 is a schematic view of a CD-ROM drive according to
25 the present invention. The present invention provides three stages of command entry for an electronic device.

In the first stage, a specific command is selected for a CD-ROM drive 11 according to the number of times a button 12 is

pressed. For example, the CD-ROM drive 11 performs a play function when the button 12 is pressed once, stop function when the button 12 is pressed twice, pause function when the button 12 is pressed three times, next track function when the button 12 is pressed four times, and previous track function when the button 12 is pressed five times.

In the second stage, a light indicator 14 blinks according to the number of times the button 12 is pressed in the first stage, indicating the specific command.

10 Finally, in the third stage, the button 12 is pressed again to confirm the specific command and the CD-ROM drive 11 performs the specific command.

While the invention is described using a CD-ROM drive as an example, the invention is not limited thereto.

15 Fig. 2 is a flowchart illustrating the method of command entry for an electric device according to the present invention.

First, in step S21, a CD-ROM drive is turned on. In step S22, a multi-function entry state of the CD-ROM drive is checked. The button is pressed to enter the CD-ROM drive into a
20 multi-function entry state.

If the CD-ROM drive is not in the multi-function entry state, the button only controls tray functions.

If the CD-ROM drive is in the multi-function entry state, in step S23, the button is pressed to select a specific command
25 within a first predetermined period. The light indicator indicates a first light status with a first color light (red light) or continuous blinking. The specific command is selected according to the number of times the button is pressed within the

first predetermined period. For example, the CD-ROM drive can perform play function when the button is pressed once.

In step S24, the CD-ROM drive registers the specific command according to the number of times the button is pressed.

5 In step S25, the light indicator identifies the specific command, displaying a second light status correspondingly. For example, the light indicator can blink three times when the button is pressed three times.

10 In step S26, the button is pressed again to confirm the specific command within a second predetermined period. The CD-ROM performs the specific command.

15 The present invention's method of command entry utilizes a single button and light indicator, providing multiple functions with no increase in buttons needed, reducing cost and enabling easily understood light indications corresponding to the multiple functions.

20 While the invention has been described by way of example and in terms of the preferred embodiments, it is to be understood that the invention is not limited to the disclosed embodiments. To the contrary, it is intended to cover various modifications and similar arrangements (as would be apparent to those skilled in the art). Therefore, the scope of the appended claims should be accorded the broadest interpretation so as to encompass all such modifications and similar arrangements.